CHANGHONG

DLP™ REAR PROJECTION TELEVISION

OPERATION MANUAL

DLP5131W

Read this manual carefully before operation.

Features

This DLP™ Projection TV adopts DLP™ Digital Light Processing™ technology with DMD micro-display method. With the world's advanced digital optical display technology, our projection TV is an improved product for better performance. The brightness is more than 450nits, peak contrast is up to 1000:1, picture uniformity is over 80% and the highest resolution is: PC 1024*768; HDTV 1920*1080P/1280*720P, with 16780,000 colours and 24bit true colour.

• **Digital HDTV-READY:** Identify and receive 9 kinds of HDTV signal and DVD signal via YPbPr interface automatically: 1920*1080P @ 60Hz (16:9), 1920*1080I@50Hz (16:9), 1920*1080I@60Hz (16:9), 1280*720P@60Hz (16:9), 720*480P@60Hz (4:3), 640*480P@60Hz (VGA), 720*480I@60Hz (4:3), 720*576P@50Hz (4:3), 720*576I@50Hz (4:3).

• **Computer multi-format adaptive system:** Identify and receive 10 kinds of mainstream computer display signal via PC interface automatically. To realize the XGA, SVGA, VGA input and high definition display: 1024*768 @ 60/75/85Hz, 800*600 @ 60/75/85Hz, 640*480 @ 60/75/85Hz, 720*400 @ 70Hz.

• **DVI digital video input:** Avoiding conversion from analog to digital, the picture becomes perfect. DVI can receive multi-format digital signal as 640*480 @ 60Hz, 800*600 @ 60Hz and 576P，1024*768 @ 60Hz,720P,1080i.

3:2 PULL DOWN: The playing speed of movie film is 24 frame pictures per second. While DVD interval scanning signal is 60 semi-frame pictures per second. 3:2 PULL DOWN movie mode can match these two pictures with a new one between them. The picture quality can be improved to better performance.

Other features

■ 470MHz CATV ready
■ Dual-tuner PIP
■ Still picture
■ Program compositor
■ Digital frequency synthesized tuner
■ Super High-contrast fine tint
  black optical screen(0.155mm)
■ 100(0~99) programs preset

■ Hi-Fi audio system
■ HDTV/DVD video component in terminals
■ No-signal-off
■ I²C bus control
■ Sleep off
■ Special digital micro-display surface reflector
■ Graphic/semitransparent OSD
■ High-voltage stabilizing circuit

CONTENTS

※The OSD and figures shown in this manual may be somewhat different from the actual situation.

PRECAUTIONS

Warning

※High voltage inside！non-professionals can not open the back cover. If a problem occurs(such as no picture or no sound, or if smoke or an abnormal odor starts to come out from the projection TV),immediately unplug the power cord and contact the service agency as soon as possible.

※Allow enough space (at least 10cm)between the projection TV and the other subject for proper ventilation,and do not jam the cooling fans.

※Turn the power off before replacing the lamp.

Notice

※Do not expose the projection TV to direct sunlight or place it near heat sources, moisture and dust,or where the rain can reach.

※To prevent the projection TV from falling off or tipping over, place the unit on stable and flat surface without vibration. Prevent child from speeling on the unit.

※Set up a lighting arrester when an out door antenna is used. Do not turn on the projection TV during a lighting storm .At lighting intervals, pull out the power cord and antenna cable.

※Please turn off power supply of the projection TV while outgoing ,in case the projection TV is not to be used for long period of time ,please pull out the power cord and antenna cable.

※Do not place any objects on top of the projection TV, these may cause deformation to the cabinet and screen.

※Aviod hard objects hitting on the projection TV (especially the screen) or excessive shock when moving the projection TV.
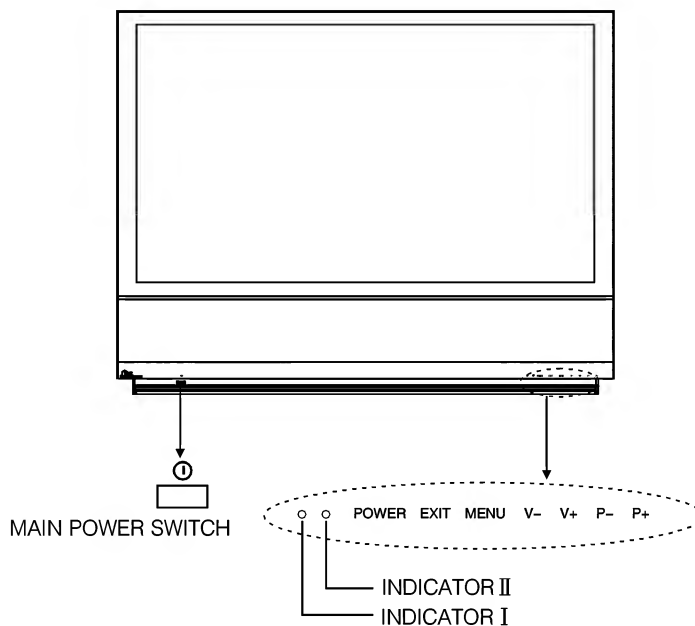
Cleaning and Maintenance

※Please clean the cabinet regularly with a dry soft cloth. Stubborn stains may be removed with a cloth slightly damped with solution of mild soap and warm water. Never use strong solvents for cleaning.
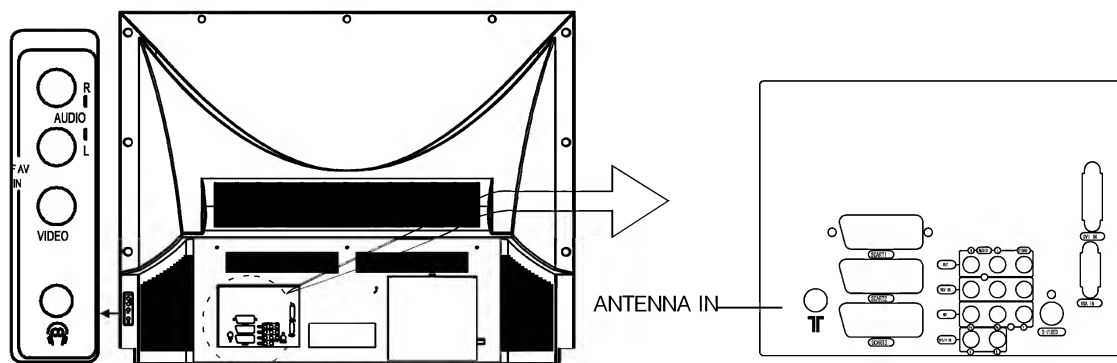
INTRODUCTION

Control Buttons

Front panel

MAIN POWER SWITCH

POWER EXIT MENU V– V+ P– P+

INDICATOR II
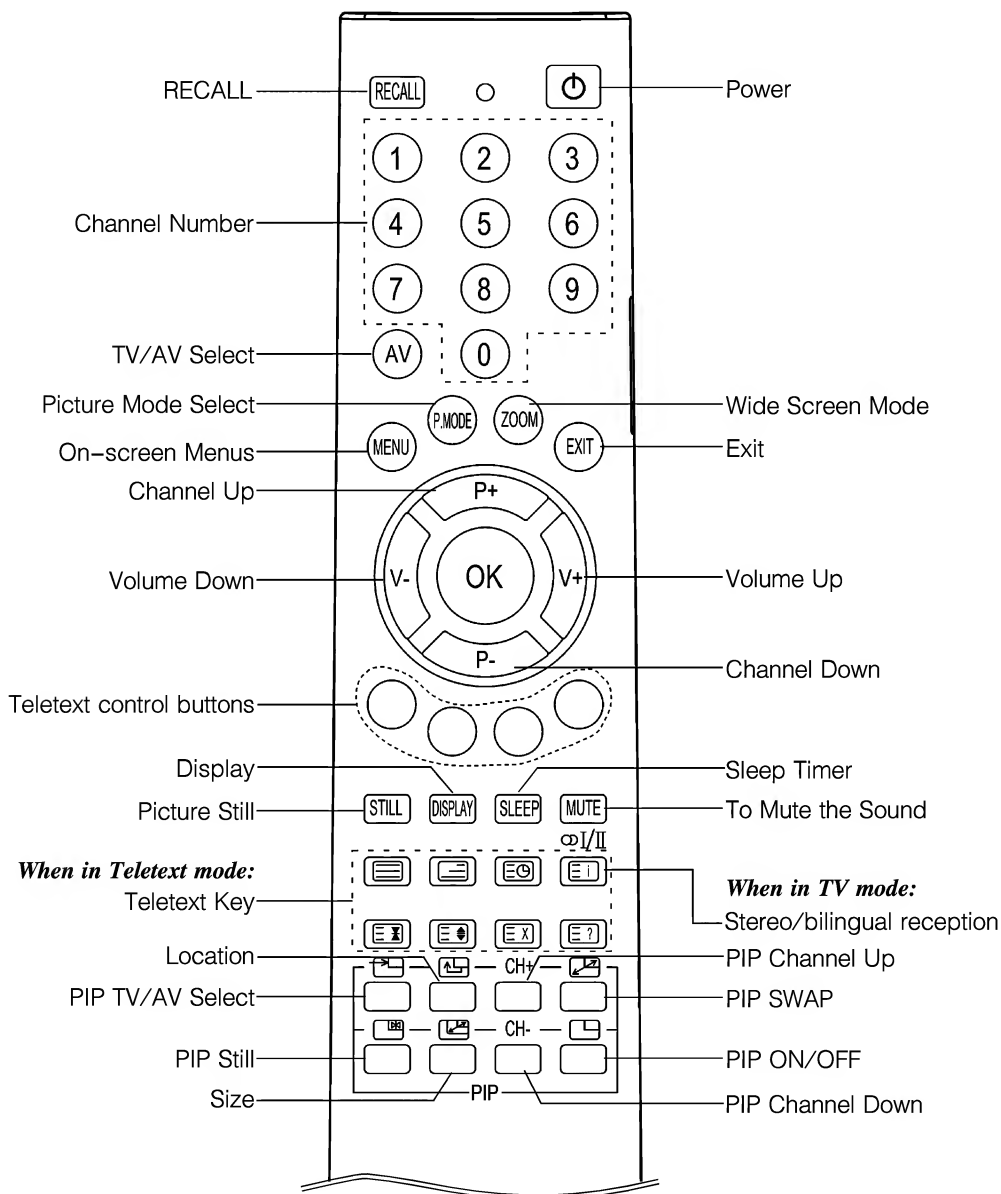INDICATOR I

Rear panel

R
AUDIO
L
F AV
IN
VIDEO

ANTENNA IN

Notes:
①The buttons of the same name on the remote control or the projection TV's front panel share the same function. The following section of this manual will focus on operation method of the remote control.
②The figures shown in this manual may be somewhat different from the actual situation，please reference to the practicality.

INTRODUCTION (continued)

Control Buttons (continued)

remote control

RECALL ——— ——— Power

Channel Number ———

TV/AV Select ———

Picture Mode Select ——— ——— Wide Screen Mode

On-screen Menus ——— ——— Exit

Channel Up ———

Volume Down ——— P+ ——— Volume Up

V- OK V+

P-

——— Channel Down

Teletext control buttons ———

Display ——— ——— Sleep Timer

Picture Still ——— STILL DISPLAY SLEEP MUTE ——— To Mute the Sound

When in Teletext mode:
Teletext Key ——— *When in TV mode:*
——— Stereo/bilingual reception

Location ——— CH+ ——— PIP Channel Up

PIP TV/AV Select ——— ——— PIP SWAP

CH-

PIP Still ——— ——— PIP ON/OFF

Size ——— PIP ——— PIP Channel Down

Note:
   The button design and specifications of the remote control are subject to change without notice.

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INSTALLATION

To Install the projection TV

· Please read the **PRECAUTIONS** completely before installation.
· It is recommended to watch projection TV in soft and indirect light and face center of the screen for optimum viewing effect.
· Allow enough space (at least 10cm) between the projection TV and the other subject for proper ventilation.
· Avoid excessively warm or wet locations to prevent possible damage to the cabinet or components.
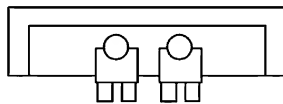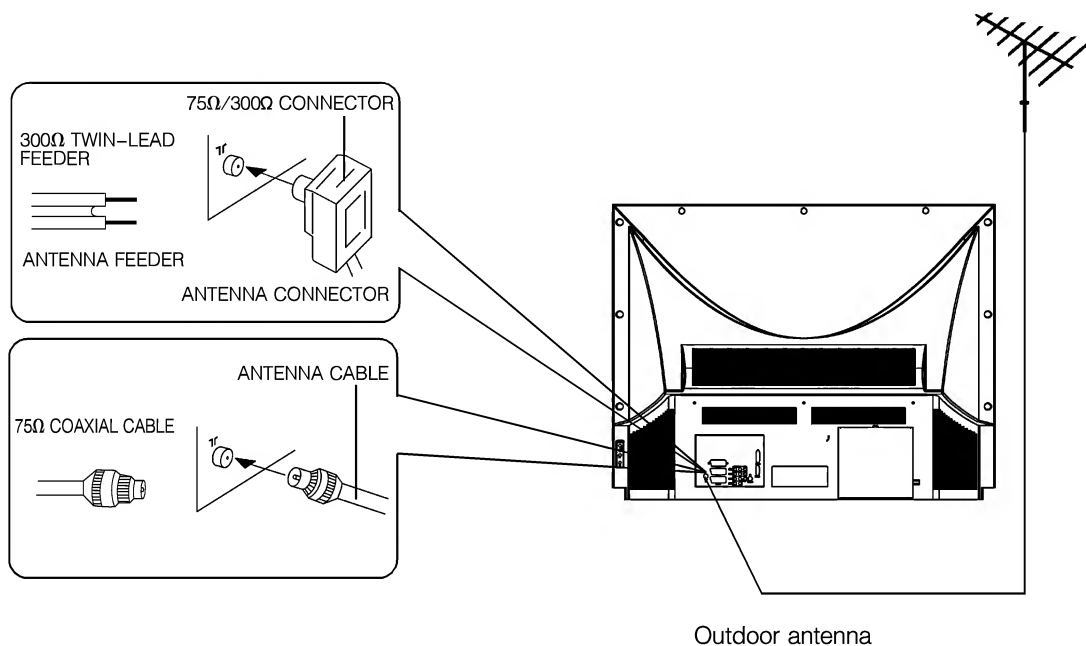
Keep proper watching distance.

10cm
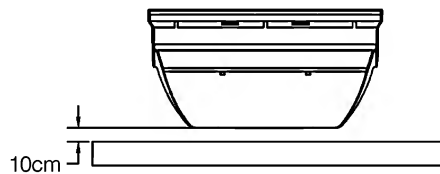
After installation, plug the projection TV in the supply socket.

INSTALLATION

To Connect the Antenna

An outdoor antenna or CATV is recommended for the best reception. The antenna type and its location differ dependent on local conditions.

Outdoor antenna

Notes:

① It is recommended that a 75Ω coaxial cable be used in order to eliminate possible interference and noise which may occur due to nearby radio transmissions.

② When using a 300Ω twin-lead feeder, connect it to a 300Ω/75Ω converter and insert the converter into the projection TV´s ANTENNA IN terminal.

③ Connect an outdoor antenna referring to the above figure. Set up a lightning arrester and check it regularly when an outdoor antenna is used.

④ The antenna cable should not be tied together with other wiring.

# INSTALLATION

Replacing the Lamp

The lamp used in a projection TV has a limited lifespan. It should be replaced when the screen becomes darker, less clear, has no effect after image adjusted or the lamp doesn´t work. Please replace the lamp. You´d better refer the servicing to Service Department. After replacing the lamp, as the screen quality will be bright and clear as new.
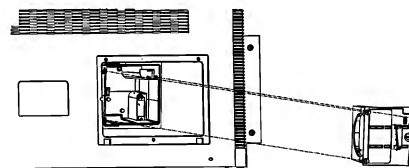
To replace the lamp, please follow these steps:

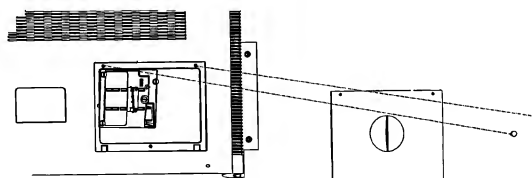① Unplug TV, then use a screwdriver to remove the lamp cover.
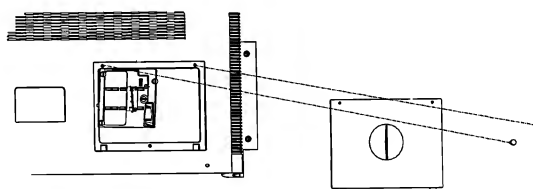
② Use a screwdriver to unfasten 2 screws securing the lamp and sepa-rate the lamp from the engine. (Un-fasten the screws is ok)
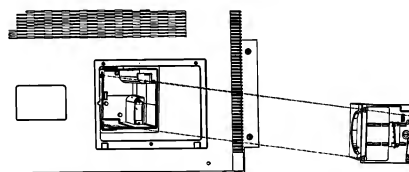
③ Put in the new lamp and lock the screws securing the lamp.

④ Fix the lamp cover.

※ **The lamp must be the same code number and type avoiding damage of TV.**

※ Turn the power off and wait for 30 minutes before replacement.

※ Do not touch the glass part of the lamp to avoid injuring by sudden break; do not place the old lamp within the reach of children.

※ **Please note that when indicator ‖ turns red, it means the lamp doesn´t work well. Specify by a table on page 10.**

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INSTALLATION (continued)

To Install Remote Batteries

Remove the back cover to reveal the battery compartment and make sure you insert the batteries the right way round.
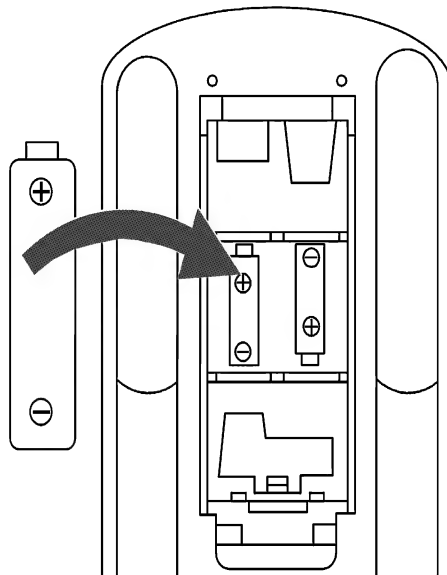

※ Suitable battery types for this remote are R03 or AAA.
※ Do not combine a used, old battery with a new one or mix battery types.
※ To avoid battery leakage, remove batteries from the remote control when it is not to be used for a long period of time or the batteries are exhausted.
※ Do not throw your old batteries into a fire, dispose of them in a designated disposal area. Do not expose batteries to fire or disassemble them.

· Caring for the remote control

※When in operation, please point the remote control directly to the center of the projection TV screen.
※Do not repeatedly press the buttons on the remote control too quickly.
※Do not expose the remote control to impacts, water or disassemble it.
※The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the TV.

POWER ON/OFF

1 □ Press ⏻ on the projection TV. The power indicator will light up and the projection TV enters the STANDBY mode.

2 ⏻ In the STANDBY mode, press the ⏻ , P-/+ on the remote control or POWER on the panel to turn on the projection TV.

3 ⏻ Press ⏻ again on the remote control or on the pront panel and the projection TV enters STANDBY mode.

4 □ To turn off the projection TV completely, press ⏻ .

※ The TV is a top grade exact appliance. Do not ON/OFF the power in high frequency to avoid damage the lifespan of lamp.

※ Do not unplug TV before yellow indicator is off when presses power off.

※ Different status of indicator tells you how's TV going.

Indicator I OFF	Indicator II OFF	TV working status Unplug TV
Blue	Red	Standby state
Ficker	Green	Operating
OFF	Green	Normal working status
Blue Flicker	Green	Receiving the operation order
Blue	Yellow	Lamp doesn´t work well (temperature is too high). Turn off the TV for a while or replace the lamp.
Blue	Yellow	Ventilation hole is blocked, Turn off the TV
Blue	Yellow	The lamp cover doesn´t fix well.
Blue Flicker	Yellow Flicker	Updating

※ Screen will display "please check flow system" when the fan doesn´t work well or the inner temperature is too high. The red indicator will blinking and TV will automatically be turned off. Please check Ventilation fan and environmental temperature of TV after unplug the set.

・Auto off without signal reception

When a channel has no signal (e.g. the TV station fails to send signals) , the projection TV will automatically turn off when no button is pressed within 5 min.

(The function only works in the TV mode.)

・Sleep auto off

Press [SLEEP] repeatly to set the function that can auto off after a certain time.
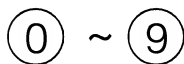
BASIC BUTTONS

Power

To enter or exit standby mode, press ⏻ on the remote control.
STANDBY function enables you to reduce power consumption and damaging to the lamp.

※Don´t leave your projection TV in standby mode for a long time, turn the power off when left unattended for a long period of time.

Numeric buttons

⓪ ~ ⑨   Press the Numeric buttons to enter position number respectively.

※TV will switch to the channel number you chose without pressing on other numeric buttons in 3 seconds.
※The set has 0~99 programs preset.

P–/+,V–/+
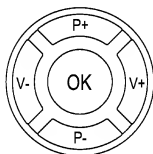
Press P–/+ to select a lower or upper position number.

Press V–/+ to decrease or increase volume.

※P–/+ and V–/+ buttons can be used for adjusting menu.

DISPLAY

DISPLAY   Press **DISPLAY** to display the current position number and time settings or other information.
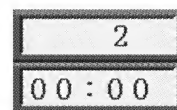
※Time display is available only after you adjust the Timer.

BASIC BUTTONS (continued)

RECALL

RECALL

Press **RECALL** repeatedly to switch the projection TV between the current program position and previous program position.
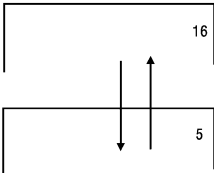
MUTE

MUTE

Use the **MUTE** function to disable the sound.
Press it again to exit.

※Pressing V+ can also cancel the MUTE function.
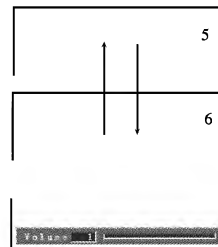※Pressing V− can decrease the volume in the MUTE mode, but can not cancel the MUTE mode.

STILL

STILL

Press **STILL** to make the current picture stillness. There is a prompt on the lower screen. Press it again to exit.

EXIT

EXIT

Press **EXIT** to exit operation from the menu etc.

ZOOM

ZOOM

The following four modes are available by pressing **ZOOM** button repeatedly.

4:3→ MOVIE → PANAROMA → 16:9

TUNING IN

Main menu

1 (MENU)   Press MENU to call up the Main menu.

```
Main menu
Picture
Sound
Channel
Program Table
Setup
PIP
        Select    Confirm
```

2   Press P –/P + to select sub –menu item, then press **OK** button to enter.

```
 Picture
Mode              Soft
Brightness   100
Contrast     30
Sharpness    40
Colour       47
Tint         +50
TFNR             Weak
Colour Temp      Normal
Advance
        Adjust       Exit
        Select
```
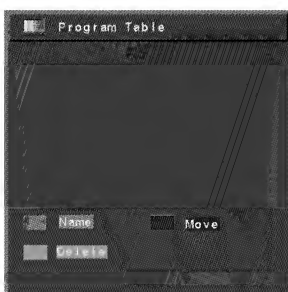
```
 Sound
Mode              Movie
Treble       0
Bass         10
Balance      +50
DBE              OFF
MSS              ON
AVL              OFF

        Adjust       Exit
        Select
```

```
 Channel
Channel           10
Colour System     PAL
Sound System      D/K
AFT               OFF
Fine
Search
Auto Search

        Adjust
        Select       Store
```

```
 Program Table




 Name         Move
 Delete
```

```
 Setup
Language
Blue Screen       OFF
Teletext          Auto
Panel lock        OFF
Current Time



        Adjust       Exit
        Select
```

```
 PIP
Brightness   10
Contrast     20
Sharpness    30
Colour       50
Tint         0




        Adjust       Exit
        Select
```

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TUNING IN (continued)

Auto Search

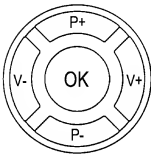**1**   Call up the CHANNEL menu.

2   Press P–/+ to highlight "Auto Search".

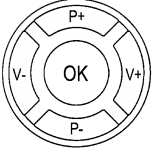**3**   Press V –/+ and auto search begins. All received programs can be searched.

4   It returns to POS 1 after auto search.

※Pressing **EXIT** or **MENU** stops auto-searching and stop in the previous searched program.

※Auto searching begins from POS 1. Users are recommended to use POS "0" for external equipment connections like tape recorder.

※The colour system is set to **AUTO**, sound system to **D/K** for the searched program. Adjust colour and sound systems if the picture is not in its best position.

TUNING IN (continued)

Search

1   Call up the **CHANNEL** menu.

2   Press V –/+ to select a program position to be
               tuned in **CHANNEL** item. For example POS 9.

3   Press P–/+ to highlight "**SEARCH**".

4   Press V –/+ to search lower or upper program
               position until the projection TV searches the
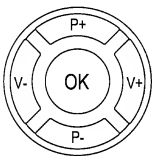   desired program.

※The projection TV stops searching when a program search has completed and will then return to the
   main menu. Continue searching if the searched program is not your desire.
※Pressing **MENU** stops searching and returns to the previous status.

TUNING IN (continued)

Frequency Fine Tuning
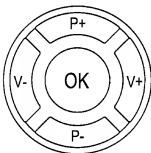
When the picture and sound of a channel are not satisfactory, please use the FREQUENCY FINE TUNING function.

**1**   Call up the **CHANNEL** menu.

2   Select a program position for fine tuning in **CHANNEL** item. For example, POS 9.

3   Press P–/+ to highlight "Fine".

4   Press V –/+ repeatedly until you get the best sound and picture effect.

Other Functions of Channel Menu

colour system, sound system and AFT in CHANNEL menu are available for setting.

1   Press Numeric buttons or P–/+ to select the **CHANNEL** you want to adjust.

2   Press **MENU** repeatedly to call up menu.

3   Press P–/+ to highlight the item you want to adjust.

4   Press V–/+ to adjust.
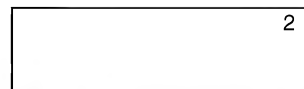
※Channel: Enables you to change position number with menu displays.

※You may select one of the five colour systems.

→AUTO ↔ NTSC ↔ PAL ↔ SECAM ↔ PAL60←

The colour system is generally set to AUTO so that signal system can be automatically identified (not for PAL60 and SECAM).

※You may select one of the four sound systems.   →D/K↔B/G↔I↔L/L´ ←

※AFT: Enables you to auto-trace the frequency of signals.

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PICTURE SELECTION

Picture Mode Selection

(P.MODE)

The following five modes are available by pressing **P.MODE** repeatedly.
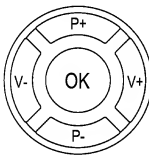
`Normal`

┌→User→Normal→Soft→Rich→Vivid ─┐

※Improve picture quality for your projection TV by using **PICTURE** menu when you aren´t satisfied with the above-mentioned modes. See "Picture Adjustment" for details.

Picture Adjustment

1

Call up the **PICTURE** menu.

2

Press P-/+ to select the item you want to adjust.

Press V-/+ to adjust.

Picture
Mode	Soft
Brightness	100
Contrast	30
Sharpness	40
Colour	47
Tint	+50
TFNR	◄ Weak ►
Colour Temp	◄ Normal ►
Advance	►

Adjust   Exit
Select

Item	Adjustment Effect	
	−	+
Mode	5 Choices	
Brightness	Darker	Brighter
Contrast	Lower	Higher
Sharpness	Lighter	Deeper
Colour	Lower	Higher
Tint	More Purple	More Green

※TINT adjustment is only available for NTSC signal.

※The adjustable TINT range is −50~+50 while other adjustments are 0~100.

※TFNR(Dynamic noise decrease) can improve picture quality. You can choose from "Strong", "Weak" and "Off"

※Colour temperature can choose from "Cool" , "Warm" and "Normal".

※Recommend value of "Sharphess" TV/AV signal 20~40, YPbPr/PC/DVI Signal is 50−100.

※The Advance menu can help you to change the H/V center of picture with P-/+ and V-/+ buttons.

SOUND SELECTION

Stereo and Bilingual

If stereo or dual language broadcasts are transmitted the word "Stereo" or "Dual" will appear on the screen, disappearing after a few seconds. The display will reappear each time you change programme positions, provided that the broadcast is in stereo. If the broadcast is not in stereo the word Mono will appear.

Stereo... Choose the required programme number. Press the ⊙I/II button repeatedly, to select between *stereo* and *Mono*.
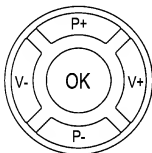
Bilingual ... Bilingual transmissions are rare. If they are transmitted the word *Dual* will display. Choose the required programme number and if the word *Dual* does appear press the ⊙I/II button to select between *Dual 1, Dual 2* or *Mono*.

Sound Adjustment

| 1 | | Call up the **SOUND** menu. |
| 2 | (navigation wheel: P+, V-, OK, V+, P-) | Press P–/+ to select an adjustment. Then press V–/+ to adjust. |

Item	Adjustment effect	
	–	+
Mode	5 choices	
Treble	Lower	Higher
Bass	Lower	Higher
Balance	Lower	Higher
DBE	ON/OFF	
Mss	ON/OFF	
AVL	ON/OFF	

※The range of items:
　Sound Mode:Normal, News, Movie, Music, User
　BASS and TREBLE: 0–100
　BALANCE: –50– +50

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SETUP MENU

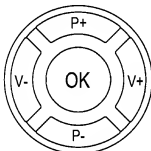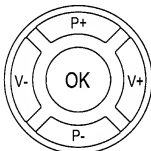## *SETUP Menu*

1   Call up the **SETUP** menu.

2   Press P–/+ to highlight an adjustment, then press V–/+ to adjust.

※With Blue Screen on, the projection TV will display a blue background and mute automatically when no signal received. With Blue Screen off, the projection TV will display noise dots on the screen in the TV mode or the screen becomes dark in the AV mode when no signal is present.

Language Menu

1   Press P–/+ to highlight the **LANGUAGE** item, then press V–/+ to enter language menu.

2   Press P–/+ to highlight the item you desire, the press OK to select.

SETUP MENU (continued)

Teletext

There are two Modes: **AUTO** will display **FASTEXT**, if available. **LIST** will display your four favourite pages. In either mode, as an alternative to the coloured buttons you can access a page by entering a 3-digit number, using the buttons on the remote control, or to advance to the next page of teletext, press the **P+** button, to go back to the previous page press the **P−** button.

Auto:

Press the ▤ button to access teletext.
In **AUTO** mode, if **FASTEXT**, is available, you will see four coloured titles at the base of the screen.
To access one of the four given subjects, press the relevant coloured button on the remote control, corresponding to the title.
For further information on your particular text system(s), see the broadcast teletext index page .

List:

In **LIST** mode, the four choices at the bottom of the screen are now numbers − 100, 101,102 and 899, which have been programmed into the TV´s memory.
To view these pages use the coloured prompt buttons e.g. press the **GREEN** button to view page 200.
If you want to change these stored pages press the coloured button for the colour you want to change, e. g. **GREEN** and enter the 3 digit number.
This number will change in the top left of the screen and in the coloured highlight.

SETUP MENU (continued)

Teletext (continued)

1 🔲   Teletext button
moves to the teletext broadcast in the channel you view.

2 🔲   Reveal/Conceal (answering) button
When in the teletext position, it enables display or hiding of some information hidden in the text broadcast.

3 🔲   Teletext timer (calling sub pages) button
In the teletext mode, it is used for accessing the sub pages directly.
For example:you are in the 500th teletext page. If 1/2 is observed at the bottom of the screen, 1 denotes the sub page that we are in, 2 denotes the total amount of the remaining sub pages. At this state, when the teletext timer key is pressed, _ _ _ _ signs are displayed instead of the teletext page number. Using the 0..9 numerals on the remote control, the sub page number that you want to go is entered. For example, if you want to go to sub page number that you want to go is entered. For example, if you want to go to sub page 2, the 0, 0, 0, 2 keys are pressed consecutively.

4 🔲   Cancel (updating) button
If you press this button while in teletext mode, TV broadcast will be displayed. But teletext is still active and if you enter a page number, it continues to search for it. When the page is found, a message to show that is displayed. If you press this button again, teletext will be displayed.

5 🔲   Size (page expanding) button
This button enables you to view the teletext page in 3 different formats. Normal size, upper part enlarged two times, down part enlarged two times.

6 🔲   Mix (viewing TV and Teletext information together) button. In teletext mode, TV broadcast and teletext will be displayed at the same time. If you push the button again, it will be back to normal.

7 🔲   Hold (holding sub page) button
If a teletext page has bottom pages, these pages are displayed with certain time intervals. In such case, the current page is hold constantly. STOP icon will appear at the left upper corner of the page when you do this. Press the button again, to deactivate the function.

8 🔲   Index (main page) button
This button takes you directly to the index page of the teletext.

9 ○○○○   Color (red, green, yellow, blue) button
(This feature applies to fast teletext broadcast).
You can scan the teletext information more easily using these four color text buttons.

EXAMPLE:	Press **RED** button to receive TV information	Press **GREEN** key to receive Sports Information	Press **YELLOW** key to receive the news	Press **BLUE** key to receive weather forecast
	↓	↓	↓	↓
	TV GUIDE	SPORTS	NEWS	WEATHER

(The information above is given as example. The information corresponding to the colors changes according to the page being investigated).
NOTE:Some models do not have TELETEXT feature.

PIP OPERATIONS

PIP on/off

1 Press repeatedly to scan through the following modes:

PIP ON→PIP OFF
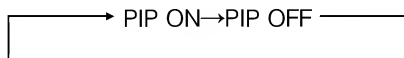
2 When PIP is on, you can call up the PIP menu.
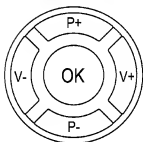
3 Press P−/+ to select an item you want to adjust and press V−/+ to adjust.

PIP SWAP

Press to switch between the main and sub-pictures.
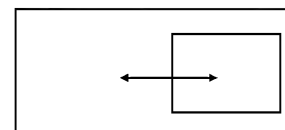
PIP CH−/+
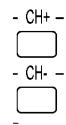
Press to select an upper or lower number for PIP.
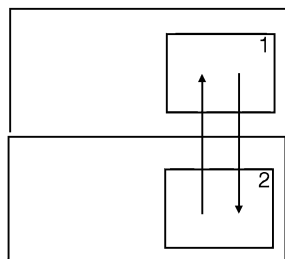
PIP LOCATION

Press to change the position of a sub-picture.

20
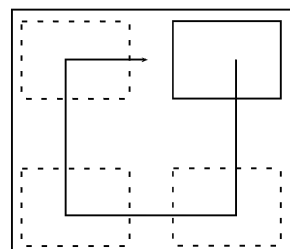
PIP OPERATIONS (continued)

PIP SIZE

Press to scan through the following modes:
BIG SIZE→SMALL SIZE
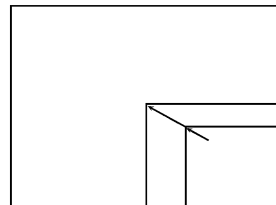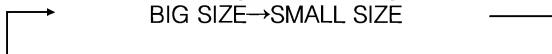
PIP AV/TV

Press to switch between PIP AV and PIP TV for sub-picture.

1
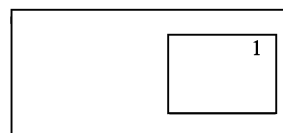
※Signals from DVI, YPbPr and PC jacks aren't available to be displayed on the sub-picture.

PIP STILL

Press to make PIP picture still.

EXTERNAL EQUIPMENT OPERATION

AV button

(AV)   Press AV button to call up the AV menu.
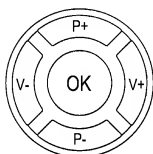
Press P−/P+ to select an item. Then press select the input mode.

```
TV
SCART1
SCART3
SCART3
Fr.AV
R.AV
YPbPr
DVI
PC
```
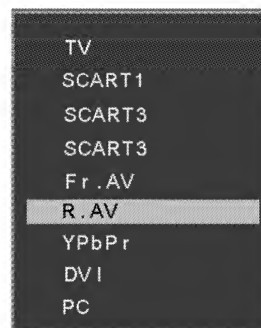
· In AV menu, scroll through the following modes after completion of connections:

TV — Display current programme.

SCART1 — Display the signal from SCART1 jack.

SCART2 — Display the signal from SCART2 jack.

SCART3 — Display the signal from SCART3 jack.

Fr.AV — Display the signal from Front AV IN.

R.AV — Display the signal from AV IN

YPbPr — Display the signal from rear DVD COMPONENT SIGNAL IN.

DVI — Display the signal from DVI IN.

PC — Display the signal from PC jack.
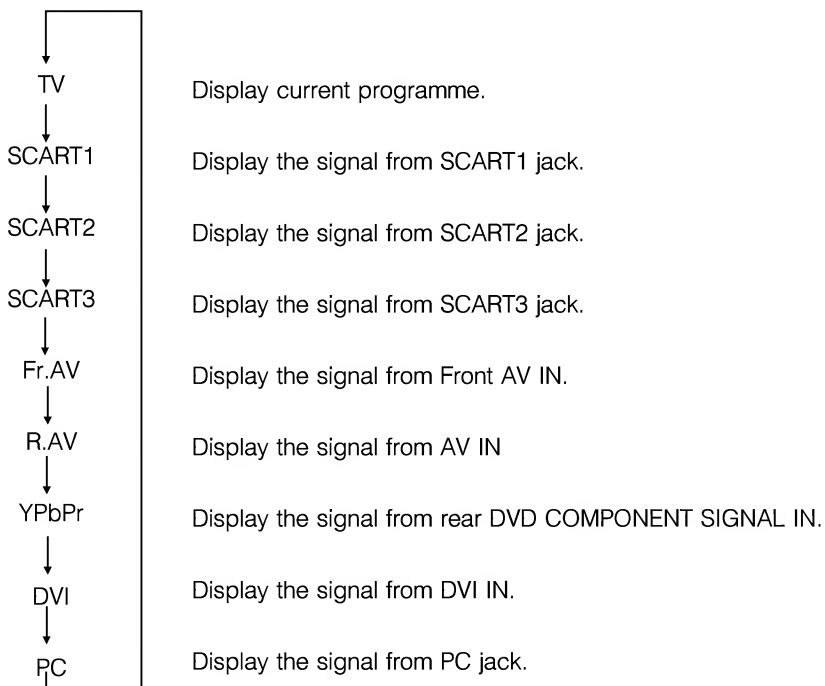
※If the picture is abnormal, re−select colour system or set it to AUTO.
※If connects S−VIDEO and AV at the same time. The signal from S−VIDEO is in priority.

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EXTERNAL EQUIPMENT CONNECTION

A/V OUTPUT

You can connect A/V IN jacks of stereo system, VCR, and other A/V receiver to MONITOR OUT on the rear panel of your projection TV.

Procedure:

Disconnect all power sources before making any connections, and read the instructions carefully in the manual.

·Connecting stereo system

Stereo system

Rear AV terminal

⬳ Signal direction

Ⓦ White terminal   (Audio L/Mono)

Ⓡ Red terminal (Audio R)

⬳ To AUDIO IN

·Connecting VCR

VCR

Rear AV terminal

⬳ Signal direction

Ⓨ Yellow terminal   (Video)

Ⓦ White terminal   (Audio L/Mono)

Ⓡ Red terminal   (Audio R)

⬳ To AUDIO IN

⬳ To VIDEO IN

23
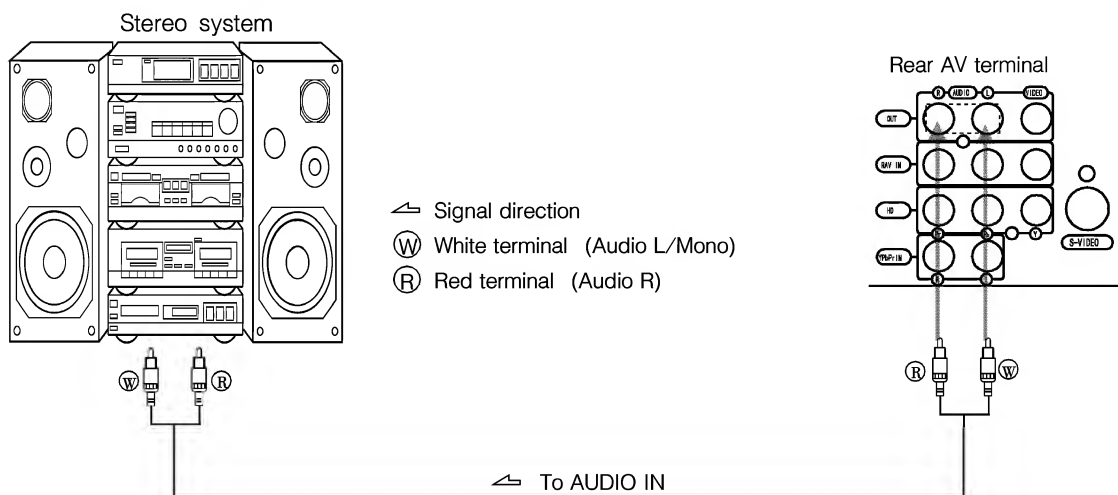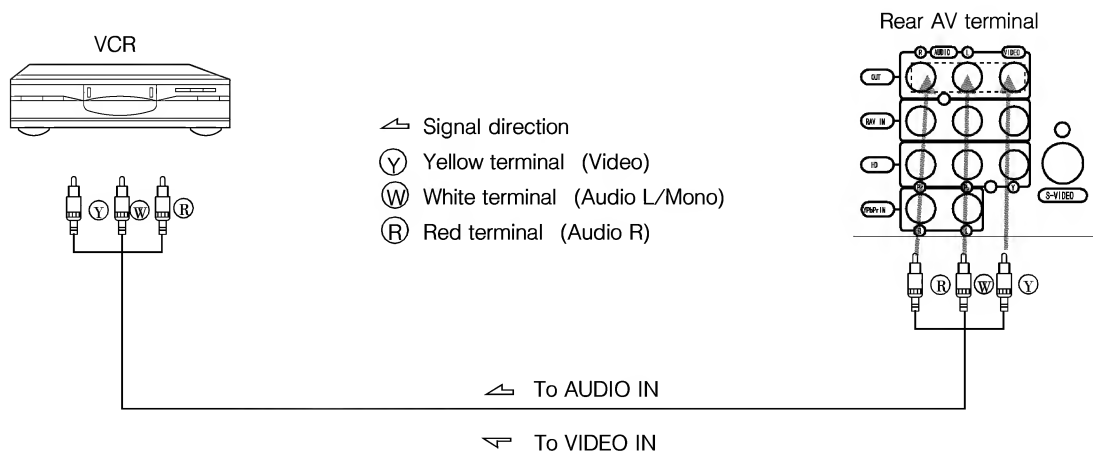
EXTERNAL EQUIPMENT CONNECTION

A/V INPUT

You can connect AV OUT of stereo system,VCR and DVD player to AV IN on the side and rear panels of your projection TV.

| Procedure: |

Disconnect all power sources before making any connections, and read the instructions carefully in the manual.

> ※If use Video Input and S terminal of the same AV at the same time. S terminal is in priority.

・If your VCR does not have S-VIDEO terminal.

Side AV terminal

VCR without S-VIDEO

⟾ Signal direction
Ⓨ Yellow terminal (Video)
Ⓦ White terminal (Audio L/Mono)
Ⓡ Red terminal (Audio R)

To VIDEO/ AUDIO IN ⟾
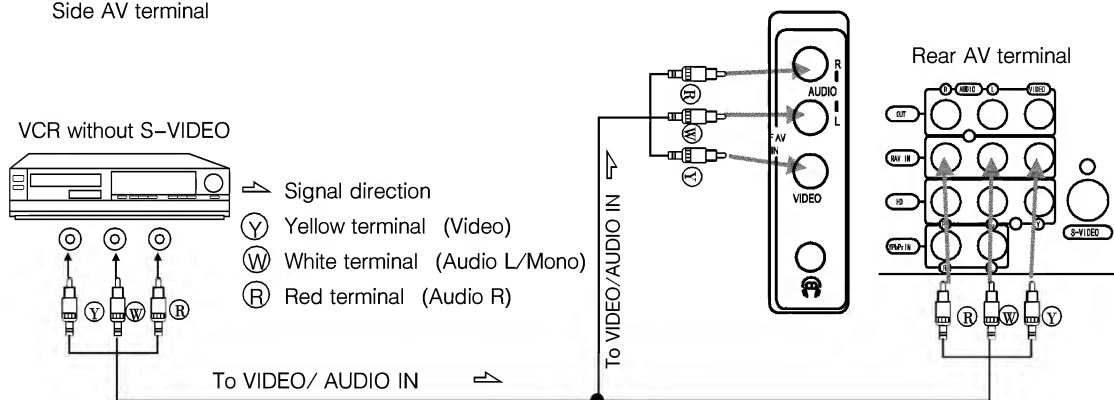
Rear AV terminal

・If your VCR have S-VIDEO terminal.

Side AV terminal

VCR with S-VIDEO

⟾ Signal direction
Ⓦ White terminal (Audio L/Mono)
Ⓡ Red terminal (Audio R)

TO VIDEO IN ⟾

TO AUDIO IN ⟾

Rear AV terminal
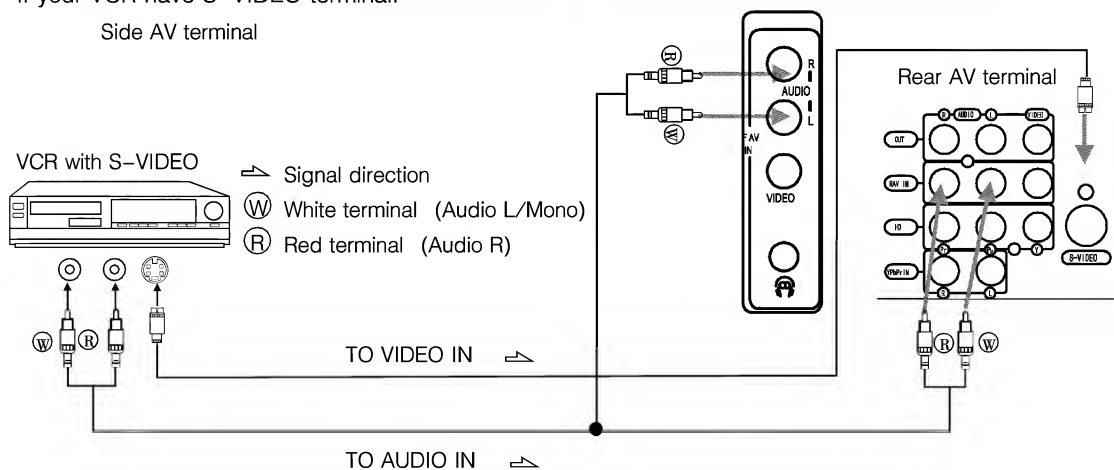
> ※The projection TV only receives the signal from VCR when connecting RF OUT of VCR to the antenna terminal of projection TV.

EXTERNAL EQUIPMENT CONNECTION

A/V INPUT (continued)

Rear AV terminal

Camcorder, etc.

⇨ Signal direction
Ⓨ Yellow terminal (Video)
Ⓦ White terminal (Audio L/Mono)

Ⓦ Ⓨ

To VIDEO IN ⇨

To AUDIO IN (L/Mono) ⇨
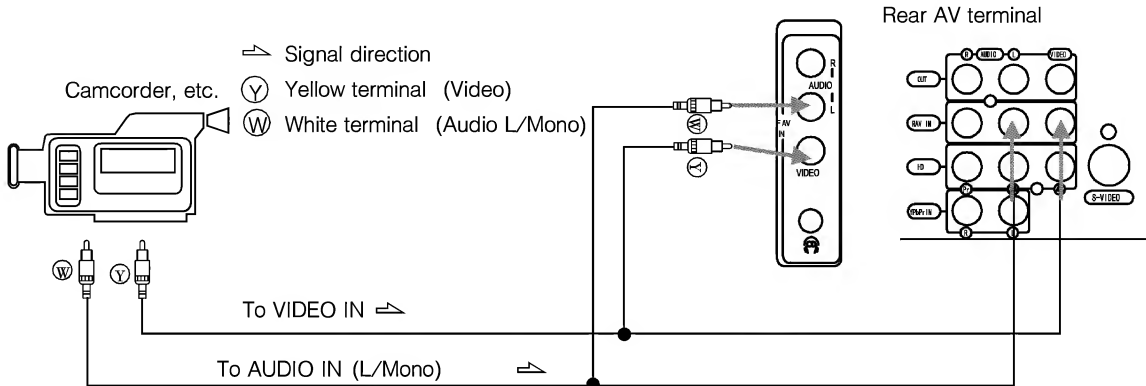
※ Connect AUDIO OUT (IN) of external equipment to LEFT/MONO IN (OUT) of your projection TV if that e-quipment doesn't have STEREO OUT (IN).

1.Connecting DVD player

Using three separate component video cables, connect the DVD players´ related jacks to Y,C_B and C_R jacks on the projection TV.

DVD player with COMPONENT
SIGNAL OUT terminals

Rear AV terminal

⇨ :Signal direction
Ⓖ :Green terminal (Y, brightness signal)
Ⓑ :Blue terminal ($P_b(C_b)$, blue difference signal)
Ⓡ :Red terminal (Pr(Cr), red difference signal)
Ⓦ :White terminal (AUDIO L/MONO)
Ⓡ :Red terminal (AUDIO R)

To AUDIO OUT terminals

TO AUDIO IN ⇨

TO VIDEO IN ⇨

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EXTERNAL EQUIPMENT CONNECTION

A/V INPUT (continued)

2. Connecting a DVD player with A / V Connectors

To VIDEO IN ⊷

Rear AV terminal

DVD player

LINE OUT   S VIDEO OUT
R   L   VIDEO

⊷ :Signal direction
Ⓦ :White terminal (AUDIO L / MONO)
Ⓡ :Red terminal (AUDIO R)

To AUDIO IN ⊷

Digital HD monitor—receiver

The projection TV has Y、Pb、Pr jacks for HDTV signal, and can receive HD signals of 480p、480i、720p and 1080i. The picture is sharper and more vivid than that when receiving componet signal.
Disconnect all power before making any connections.

Rear AV terminal

To COMPONENT IN ⊷

⊷ :Signal direction
Ⓖ :Green terminal (Y, brightness signal)
Ⓑ :Blue terminal (Pb, blue difference signal)
Ⓡ :Red terminal (Pr, red difference signal)
Ⓦ :White terminal (AUDIO L/MONO)
Ⓡ :Red terminal (AUDIO R)

To AUDIO IN ⊷

※If your HDTV has both VIDEO OUT and S–VIDEO OUT terminals, you can also connect them to the corresponding IN terminal of the PTV.

EXTERNAL EQUIPMENT CONNECTION

SCART INPUT

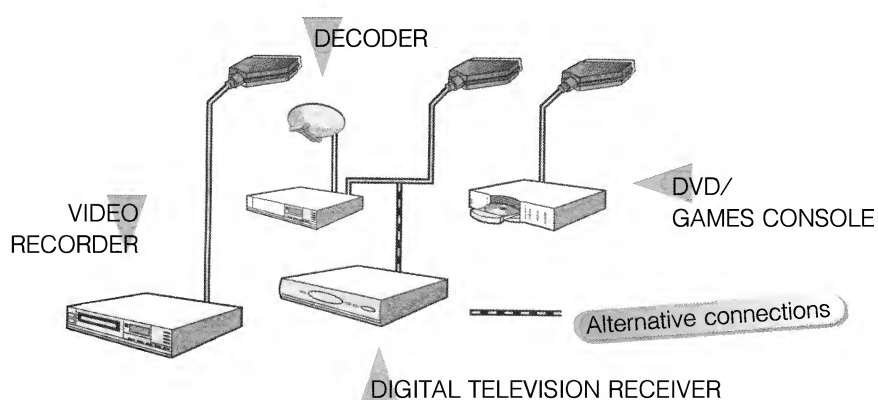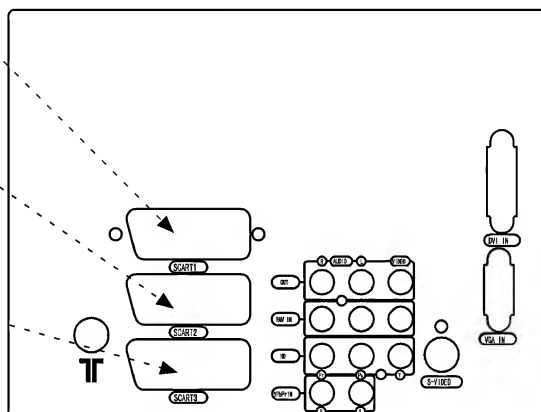Before connecting any external equipment, turn off all main power switches.

If your TV automatically switches over to monitor the external equipment you can return to normal TV simply by pressing the desired programme position button.

To recall the external equipment connecting with SCART jacks, press the (AV) button to call up the AV menu, then select between *SCART1, SCART2, SCART3* .

SCART 1
(EXT 1)

SCART 2
(EXT 2)

SCART 3
(EXT 3)

DECODER

VIDEO
RECORDER

DVD/
GAMES CONSOLE

Alternative connections

DIGITAL TELEVISION RECEIVER

EXTERNAL EQUIPMENT CONNECTION
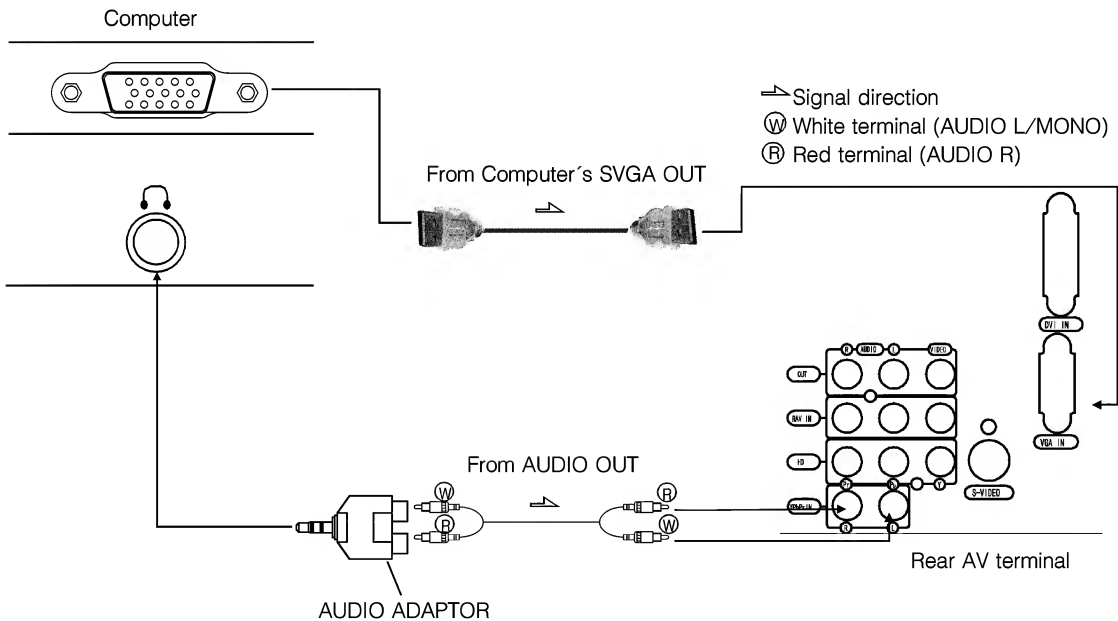
PC INPUT

Connect computer´s PC OUT to PC IN jack of the projection TV.

Procedure:

1. Disconnect all power sources before making any connections.

2. Using PC cables and audio jacks, connect computer with the projection TV.

Computer

Signal direction
ⓦ White terminal (AUDIO L/MONO)
Ⓡ Red terminal (AUDIO R)

From Computer´s SVGA OUT

From AUDIO OUT

AUDIO ADAPTOR

Rear AV terminal

※ The connection figure is for reference purpose only due to different computer audio output modes.
※ When using audio jacks, insert left/right audio cables into YPbPr IN jack.
※ Audio adaptor is optional.
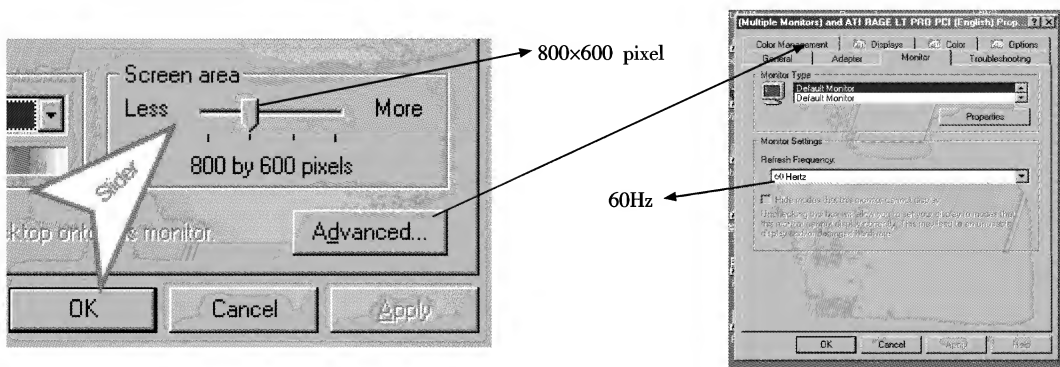※ Do not pull out PC cable when the projection TV is in power.

EXTERNAL EQUIPMENT CONNECTION

PC INPUT (continued)

1. Indentify and receive 10 kinds of signal fromats: 640×480@ 60/75/85/Hz, 800×600@ 60/75/85Hz, 1024×768@ 60/75/85/Hz, 720×400@70Hz.

Operation and adjustment

※ Turn the computer on, the recommended display mode is 800X600,and refresh rate to 60Hz.

※The above figure is for reference purpose only due to different computer.

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2. Turn the projection TV on, and press PC or AV to enter the PC mode.

The projection TV identifies the input signals after entering the PC mode. The projection TV will display the clew the signals are not the signal fromats that the TV indentified.

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3. Press ◯ DISPLAY to display the current status of the projection TV. Press "P.MODE" to adjust the picture quality. or Press MENU to call up VIDEO menu to adjust picture.
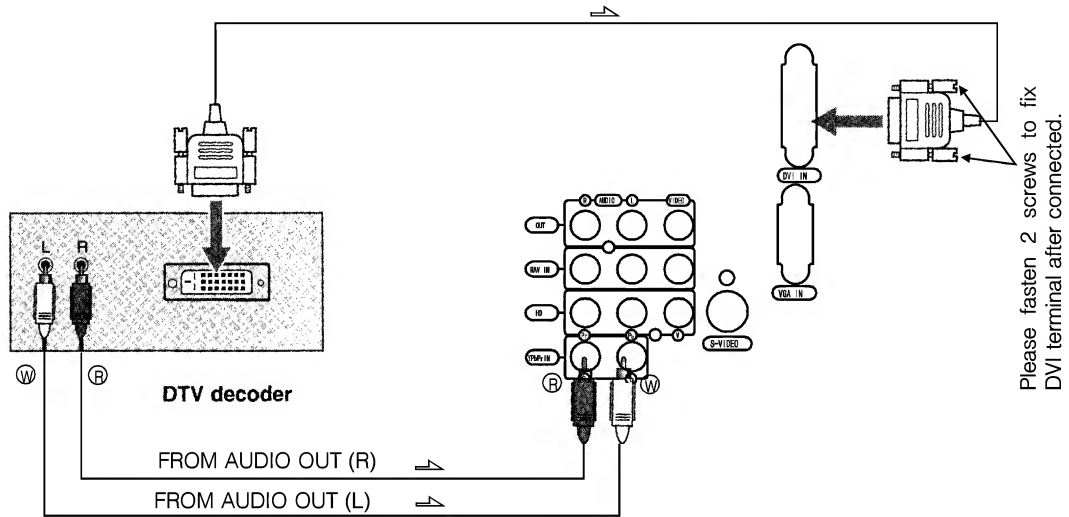
EXTERNAL EQUIPMENT CONNECTION

DVI Input

Connection

1、 Cut off all equipments´ power supply before connection.
2、 Connect DTV and DVI terminal in the set with special cable and audio line separately.

※ The audio connection of the picture is for reference only.
※ Please inset L/R audio signal lines into rear component audio terminal when using audio terminals.

Using and adjusting

1、 Can receive 1024*768@60Hz, 800*600@60Hz, 1080i,720P,576P,640*480@60Hz signals.
2、 Press DVI or AV button to enter DVI mode.

※ Do not insert or unplug the special cable line in power on status.

TROUBLESHOOTING

•Before calling service personnel, please check the following chart for a possible cause to the trouble you are experiencing.

Symptom	Check these things
No power supply	• Make sure the power cord is plugged in.
Poor colour/hue	• May be the misadjustment for contrast, colour and hue.
Spots appear on the screen.	• May be jamming from cars, motorcycles, electric trains, high tension lines, neon signs, hair dryers, etc.
Stripes appear on the screen.	• May be jamming from other TV receivers, personal computers, and TV games as well as interference from radio station.
Double or triple images	• May be caused by reflection from nearby mountains or buildings. • Check if the direction of the antenna has changed because of strong wind, etc.
Snowy picture	• Check the antenna/cable connections. • Check if the direction of the antenna has changed.
Abnormal colour or no picture	• May be due to improper fast power-on. Power off the projection TV, then power it on again.
The remote control does not work.	• The batteries in the remote control may be exhausted. • Check the orientation of the batteries.
There are problems with teletext.	Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the Text is unreadable or garbled, check your aerial. Go to the main index page of the teletext service and look for the User Guide. This will explain the basic oper ation of teletext in some detail. If you need further information on how to use text see the teletext section.
No teletext sub-pages.	There are no broadcast or they have not yet been loaded.

SPECIFICATIONS AND ACCESSORIES

Rated voltage	230V~ , 50Hz
Rated power consumption	250W (Approx.)
Dimensions (W)×(H)×(D) (mm)	1226mm×945mm×425mm（Approx.）
Weight	45kg（Approx.）
Effective screen size (W)×(H) (mm)	1129mm×635mm（Approx.）
Channel Coverage	VHF:C1~C12 UHF:C13~C57 CATV:Z1~Z37
Colour system	PAL, NTSC, PAL60, SECAM
Sound system	D/K, I, B/G, L/L´
Audio output	10W+10W (THD=7%)
Accessories supplied	Operation manual Remote control AAA alkaline batteries (2)

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